NEW YORK STATE OFFICE OF RENEWABLE ENERGY SITING

In re the Matter of

Application of Horseshoe Solar Energy LLC For a 94-c Permit for a Major Renewable Energy Facility **Case No. 21-02480**

TOWN OF RUSH AND RESIDENTS UNITED TO SAVE OUR HOMETOWN REQUEST FOR PARTY STATUS, ISSUES STATEMENT, AND STATEMENT OF COMPLIANCE WITH LOCAL LAW

Exhibit 8

Witness Qualifications for:

1. **Justin Tubiolo**
2. **John Morelli, PhD, PE, DEE**
3. **Rush Town Supervisor Gerald Kusse**
4. **Rush Deputy Supervisor Amber Corbin**
5. **Barton & Loguidice**

Justin A. Tubiolo

67 Midland Drive, Webster, NY 14580-1852
(585) 671-7886, Tubiolo@juno.com

Education:

- B.A. in anthropology, St. John Fisher College.
- graduate studies, Empire State College.

Current Position:

- Trustee, Lewis Henry Morgan Chapter (Rochester regional chapter), New York State Archaeological Association.

Current Affiliations:

- Life member, New York State Archaeological Association (NYSAA).
- Council on Undergraduate Research, St. John Fisher College chapter.
- Co-founded two anthropology scholarships at St. John Fisher College.
- Over 30 years of service to Boy Scouts, including counseling Archaeology, Indian Lore, and Collecting merit badges. Received three National commendations from the Boy Scouts of America as an adult volunteer: Silver Beaver Award, St. George Emblem, Order of the Arrow Vigil Honor.

Previous Positions:

- Served 10 years as President of Lewis Henry Morgan Chapter, NYSAA.
- Instructor of Anthropology, Rochester Museum and Science Center.
- Archaeology field school instructor, Gannett School, RMSC.
- Elderhostel instructor for "Iroquois Culture" course, Roberts Wesleyan College Continuing Education, 1990 and 1991.
- Board member and accessions officer, Webster Museum and Historical Society, Webster, N.Y.
- Adjunct instructor of archaeology, St. John Fisher College, 2006-2017.
- Director of research, Mount Morris Historical Society.

Sites of Archaeological Fieldwork in Western New York:

- Prehistoric: Alhart, Footer, Mills Mansion, Serven, Harding-Fulton.
- Contact Period: Cameron, Ganondagan, Alva Reed, Tram, Kanadasaga.
- Historical: Buckland Farm House, Fort Niagara, Highland Park, York Cabin, Factory Hollow, LeRoy Log Cabin, Mills Mansion.

Recognitions Received:

- Certificate of Merit (2002), New York State Archaeological Association.
- Individual Award of Merit (2003), Western New York Association of Historical Agencies.

Articles Authored:

"The Parker-Morgan Legacy." *The Iroquoian*, L.H. Morgan Chapter, NYS Archaeological Association, Issue No.23, 1997.

"Prehistoric Carving Kit from the Mills Mansion Site." *The Iroquoian*, L.H. Morgan Chapter, NYS Archaeological Association, Issue No.26, April 2001.

Archaeology of the Front Fence at the 1838 Mills Mansion in Mount Morris, New York. Phase 3 Cultural Resource Management report filed, NYS Office of Parks, Recreation and Historic Preservation, Historic Preservation Field Services Bureau. August 2003.

"Archaeological Field School in Mount Morris, New York." *The Iroquoian*, L.H. Morgan Chapter, NYS Archaeological Assoc., Issue No.28, April 2005.

"Milling Complex at Factory Hollow." *The Iroquoian*, L.H. Morgan Chapter, NYS Archaeological Association, Issue No.31, January 2008.

Educational column for *The Livingston County News*, 10 weekly newspaper articles with photographs, relating the progress of an entire archaeological field season. Summer 2010.

"Enigma of the Shroud of Turin." *Verbum*, Religious Studies Department, St. John Fisher College, Vol. 8, Issue 2, Spring 2011. Fisher Digital Publications, http://fisherpub.sjfc.edu/verbum/vol8/iss2/17

"Attracting Cardinals Effortlessly." *Meadowlark*, newsletter of the Genesee Valley Audubon Society, Vol. 41, No. 1, September-October 2013.

"Anthropologists have not forgotten the Iroquois," guest essay, Rochester *Democrat & Chronicle* newspaper, Saturday, July 29, 2017.

Authored long-running columns for various Boy Scout newsletters on several topics, including: Native American culture; and hobby collecting (e.g., coins, postage stamps, fossils, etc.) as subjects of personal study.

Cultural Landscape of the Genesee Valley, report on cultural resources threatened by a 180-megawatt solar energy generation facility in the Genesee floodplain. Study sponsored by the Town of Rush, Monroe County and filed with the NYS Department of Public Service. September 23, 2021.

Conference Presentations and Exhibitions:

- Papers presented at the New York State Archaeological Association annual conferences: 1979, 2004, 2009, 2013.
- New York State Archaeological Association Centennial Conference, 2016.
- Sigma Xi scientific research association, Rochester chapter banquet speaker 1994.
- Rochester Academy of Science, fall paper session 2003.
- Paper presented at Soldiers, Cities and Landscapes Colloquium on historical archaeology, New York State Museum, Albany, Dec. 1, 2007.
- Three photographs selected to hang in juried art exhibition at the Rochester and Monroe County Central Library, sponsored by Empire State College, September-November 2009.
- Exhibit of archaeological artifacts from the Mills Mansion Site, permanently housed in the General William A. Mills House, Mount Morris, NY, 2010.
- Exhibition of archaeological photographs and artifacts at St. John Fisher College, Patricia O'Keefe Ross Gallery in the Skalny Welcome Center, February-March 2011.
- Lewis Henry Morgan Chapter, NYSAA, banquet speaker 2011.
- Rochester Rotary Club, luncheon speaker, Nov. 30, 2012
- Tinker Homestead and Hansen Nature Center, April 2013.
- Mount Morris Rotary, dinner speaker, Sept. 1, 2015 and Sept 19, 2017.
- Mount Morris Rotary Club, breakfast speaker, Aug. 30, 2016
- St. John Fisher Scholarship Celebration (celebrating faculty research), formal presentation speaker, St. John Fisher College, Oct. 27, 2016.
- St. John Fisher College inaugural Teaching & Learning Fair, Dec. 18, 2017.
- West Sparta Historical Society speaker, Sept. 8, 2019.
- Daughters of the American Revolution, Rochester chapter, Sept. 15, 2021

JOHN MORELLI, PhD, PE, DEE

EDUCATION

Syracuse University College of Engineering -- BS Environmental Engineering & Public Affairs - 1977
SUNY College of Environmental Science & Forestry -- MS Environmental Resource Engineering - 1983
SUNY College of Environmental Science & Forestry -- PhD Environmental Science - 1996

PROFESSIONAL LICENSING AND CERTIFICATION

Professional Engineer – NYS Registration – *August 1984 - present*
Diplomate of Environmental Engineering – American Academy of Environ. Engineers – *1986-present*

EXPERIENCE

Rochester Institute of Technology
Professor Emeritus, Rochester Institute of Technology, July 2015 – present.
Professor, Dept. of Civil Engineering Technology, Environmental Management & Safety (July 2003 – June 2015).
Department Chair, Civil Engineering Technology, Environmental Management and Safety (July 2009 – June 2013).
Russell C. McCarthy Chair, Office of the Dean, College of Applied Science and Technology (2007 – 2010).
Associate Professor, Department of Civil Engineering Technology, Environmental Management & Safety, July 2000 -03
Department Chair, Associate Professor and International Faculty Associate, Department of Environmental Management and Technology, July 1991 - June 2000.

NYS Energy Research & Development Authority. 2/86 to 6/91
Senior Project Manager, Energy Resources and Environmental Research Albany, NY.

NYS Department of Environmental Conservation. 1984 to 1986, Senior Environmental Engineer, Albany, NY.
Project Manager, Bureau of Remedial Action, 1984 - 1986.
Senior Environmental Engineer, Bureau of Hazardous Waste Operations, 1983 – 1984.

SYNERGISTIC ACTIVITIES

Coordinator, Town of Rush Comprehensive Plan Update Committee *January 2022 – present*
Coordinate actions of a 15-member committee appointed by the Rush Town Board to identify and recommend a consultant to assist the Town in updating its Comprehensive Plan and to provide guidance and direction to the consultant in this effort.

Steering Committee Member, Residents United to Save our Hometown *2019 - present*
Assist in guidance and direction for a 200+ member citizens group committed to support solar energy and protect prime farmland in the Town of Rush.

Member, Joint Town of Rush & Residents United Committee to revise Rush Solar Energy Systems Law – *June – October 2019*
Participate along with members of the Rush Town Board, the Town Attorney, members of Residents United and the Residents United Attorney to identify and revise shortcomings of the initial version of the Town of Rush Solar Energy Law.

Vice Chair, Town of Rush Planning Board *1994 - 2020*
Appointed by the Rush Town Board to apply the Town Code in the review and approval process for subdivisions, site plans, special permits and other responsibilities of the Planning Board. Participated in hundreds of such evaluations. Also committed to follow the guidance of the Town Comprehensive Master Plan in the strategies and goals designated for the Town's development. Participated in five reviews of the Comprehensive Plan over the last 24 years on the Planning Board. Dedicated to assisting residents fulfill their property related desires within the parameters of the Town Code.

Editor in Chief, *Journal of Environmental Sustainability 2011 – present* https://scholarworks.rit.edu/jes
The aim of the Journal of Environmental Sustainability is to serve as a bridge between academic and practitioner communities and guide policy and management practice to achieve environmental sustainability.

Gerald Kusse

Rush Town Supervisor

Term Length: 2 years
Current Term Expires: 12/31/2023

(585) 533-9058
(585) 533-9346
Email supervisor@townofrush.com
5977 East Henrietta Road, Rush NY 14543

Biography:

Mr.Kusse retired from Eastman Kodak Company in December 1991.

Mr. Kusse then retired from a wholly owned subsidiary company in 1997 where he served as The Director of Human Resources.

In 1992 the Kusse family purchased a large parcel of land in West Rush with the intent to develop the parcel for rural residency. In the following 28 years the Kusse children were raised on site with emphasis on a minimal disturbance of the area's rich and mostly undisturbed natural resources.

In 2000 Mr. Kusse was appointed as the Code Enforcement Official for the Town of Rush. In that capacity he was responsible for ensuring all proposed development projects complied with existing land use regulations and NYS Building Codes.

In 2016 Mr. Kusse was elected to serve on the Rush Town Board where he participated in the development of the first solar law(s) and in 2020 he was elected to serve as Town Supervisor.

Amber Corbin

Councilperson, Deputy Town Supervisor

Term Length: 4 years

Term Expires: 12/31/2023

Email: amber@townofrush.com

Biography:

Deputy supervisor Corbin resides at 8 Meadowood Rush NY 14543

Retired High School Science Teacher- Livonia Central School District, Livonia NY

Current: Elected Councilwoman-Deputy Supervisor Town of Rush NY (2020-present)

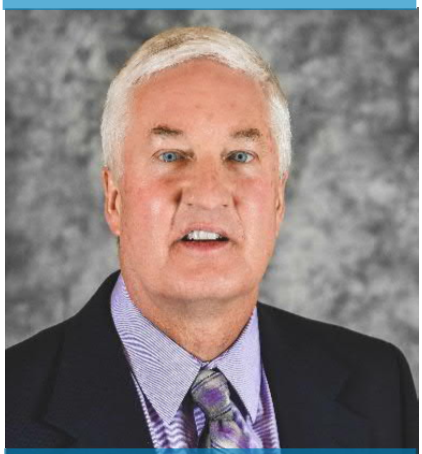
- Town of Rush Tier 3 Solar Liaison to the Supervisor

2019: Co-Chair of Residents United to Save our Hometown (RUSH)

- Worked on drafting the Town of Rush Local Solar law with:
  - RUSH Steering Committee members John Morelli and John Kaman
  - Town of Rush Councilpersons: Dan Woolaver and Rita McCarthy

2020: Chaired Committee to develop Town of Rush Tier 3 Solar Energy System documents based on the Town of Rush Local Solar Law

- Checklist for Applicants
- Checklist for Town Engineer
- Checklist for Town Board Member review
- Checklist for Planning Board review
- Flowchart for process



slefevre@bartonandloguidice.com

Years of Experience
33

Education
B.S. Geology, Hope College, 1981
M.S. Geology, Baylor University, 1989

Professional Registration
Licensed Professional Geologist WY, KY, PA, WI, NY
Certified Professional Geologist

Professional Accreditations
OSHA 40-Hour Safety Training Program

Professional Affiliations
American Institute of Professional Geologists (AIPG)
National Ground Water Association (NGWA)
Hudson Mohawk Professional Geologist Association (President 2007-2008)
Eastern NY Chapter of the Air & Waste Management Association (Chairperson 2008-2009)

STEPHEN B. LE FEVRE, PG, CPG

Senior Managing Hydrogeologist

Summary

Mr. Le Fevre has experience working as a hydrogeologist on a wide variety of projects in New York State. He has technical expertise in the following areas: administration and management of USEPA-funded Brownfields assessment and cleanup projects, hazardous waste investigations, including remedial investigation/feasibility studies (RI/FS), Phase I and Phase II environmental site assessments, groundwater supply development and aquifer analysis, mining permit applications and mined land use plans, draft environmental impact statements (DEIS), environmental permitting, review of SEQR submittals, and mining permit applications and mined land use plans.

Relevant Project Experience

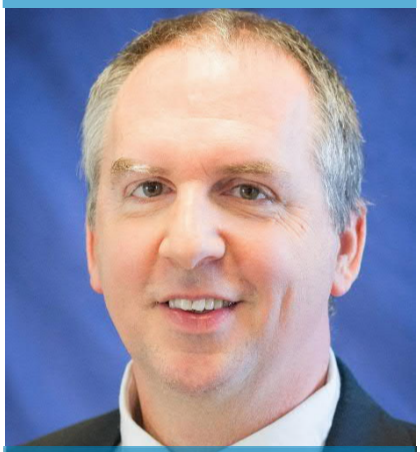
Utility Scale Solar Projects

Mr. Le Fevre serves as the Lead Project Manager in the environmental review and assessment of proposed utility scale solar projects on behalf of B&L's municipal clients. Mr. Le Fevre has orchestrated the review of 15 solar projects that range in size from 2 megawatts (MW) to 100 MW in size. Five of the solar projects are currently undergoing the Article 10 review process, and Mr. Le Fevre routinely interacts with representatives of several New York State Agencies during the Article 10 review process. Therefore, Mr. Le Fevre is fully aware of each agencies requirements in the siting of utility scale solar projects. Mr. Le Fevre assembles a team of B&L professionals to review the following aspects of each solar project:

- Land Use
- Construction
- Public Health and Safety
- Noise and Vibration
- Cultural Resources
- Geology, Seismology, and Soils
- Terrestrial Ecology and Wetlands
- Water Resources and Aquatic Ecology
- Visual, Glint, and Glare,
- Transportation
- Socioeconomics
- Site Restoration and Decommissioning
- Local Laws and Ordinances.

Phase I Environmental Site Assessments

Mr. Le Fevre has prepared more than 100 Phase I Environmental Site Assessment reports for municipal and commercial clients in the New York. Environmental concerns identified during these assessments included the presence of petroleum contaminated soil and groundwater due to leaking underground storage tanks, as well as the occurrence of polyaromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and heavy metals associated with historical site operations and poor housekeeping practices.



tbolan@bartonandloguidice.com

Years of Experience
33

Education
B.S., Electrical & Computer Engineering - Clarkson University, 1987

Professional Registration
Registered Professional Engineer New York, Pennsylvania, Connecticut, Maine, Maryland, North Carolina, New Hampshire, Florida, Virginia, Massachusetts, New Jersey, Delaware, Oklahoma, Georgia

Professional Affiliations
Institute of Electrical and Electronics Engineers (IEEE)

TIMOTHY W. BOLAN, P.E.

Vice President

Summary

Mr. Bolan has extensive facility-related electrical design and electrical operations experience involving industrial, municipal, private, and federal clients. He is in charge of oversight of our facilities electrical design staff.

Mr. Bolan's typical design responsibilities include: short circuit, voltage drop, protective device coordination, load/demand studies, energy conservation methods and recommendations, NEC/NFPA Code Compliance, life cycle analysis, drawing and specification development, cost estimating, and equipment selection.

Relevant Project Experience

Wastewater Treatment Plant Solar Power Generation System,
Village of Port Byron, NY
B&L designed a photovoltaic (PV) solar power generation system to offset electrical demand at the Village wastewater treatment facility. B&L helped obtain a $131,306 grant under the Green Innovation Grant Program, and designed a 10 kW grid-tied array mounted on top of the wastewater treatment facility maintenance shop roof. The system included 45 PV solar panels on the roof of the Village's DPW garage for generation of renewable energy for use at the WWTP. The design work included layout of the PV panels, racking system, and roof connection design; and design of the tie-in to the existing electrical system servicing the adjacent wastewater treatment plant.

Hyland Landfill LFGTE Substation and Power Line Design,
Casella Waste Systems, Inc., Town of Angelica, NY
Mr. Bolan was responsible for the design and construction phase services. Project features included: utility 34.5 kV three breaker ring bus interconnect substation, dual line 34.5 kV three breaker ring bus interconnect substation, more than 6 miles of 34.5 kV overhead line with fiber optic communications, and generator step-up substation at the landfill's plant.

Landfill Gas to Energy and Substation, DANC, Rodman, NY
For the Landfill Gas to Energy and Substation project, Mr. Bolan was the project manager and lead electrical engineer. B&L developed a comprehensive set of engineering design drawings for the 115 kV interconnect substation and 34.5 kV interconnect transmission line step up transformer substation. The design included site plan layouts for the 34.5 kV interconnect overhead transmission line, foundations, and structural drawings for the step up transformer, a pre-fabricated switchgear building, substation tower structure, and 115 kV breaker support foundation; substation ground plans; power diagrams and protective device diagrams; switchgear control circuit elementary AC/DC schematics and control circuit interconnection wiring diagrams.

jduffy@bartonandloguidice.com

Years of Experience

16

Education

A.A.S. Fisheries and Wildlife Technology, State University of NY College of Agriculture and Technology at Cobleskill, 2002

B.T. Wildlife Management, State University of NY College of Agriculture and Technology at Cobleskill, 2003

M.P.S. Wetland and Water Resources, State University of NY College of Environmental Science and Forestry, 2009

Professional Advancement & Accreditations

Certified Wildlife Biologist (CWB) Certification, The Wildlife Society

Professional Wetland Scientist (PWS), Society of Wetland Scientists

JOHANNA E. DUFFY, CWB®, PWS

Senior Managing Environmental Scientist

Summary

Ms. Duffy's experience and primary duties are associated with wetland site delineation and permitting, endangered and threatened species assessments and habitat surveys, ecological monitoring, environmental regulations, hazard mitigation, and hazardous waste and environmental site assessments. These services are performed for a wide spectrum of project types, ranging from bridge replacements to recreational trail planning efforts to solid waste facility expansion projects.

Prior projects have required Ms. Duffy to coordinate with the U.S. Army Corps of Engineers' (USACE) Buffalo and New York Districts, the NYS Department of Environmental Conservation (NYSDEC), and the Adirondack Park Agency (APA). Ms. Duffy has also performed numerous SEQRA reviews for a variety of projects, including some that required the completion of an Environmental Impact Statement (EIS). Additionally, she is experienced in NEPA processing, the Section 404 and Section 10 federal permit programs, and New York State's Environmental Conservation Law (ECL) regulations and permit requirements.

Relevant Project Experience

Northwest Quadrant WWTP and Gloria Drive Landfill Solar Arrays, Monroe County, Towns of Greece and Penfield, NY
B&L was retained by Monroe County to provide a review an assessment of impacts to bat populations at the Gloria Drive Landfill. A 13-acre 5.2MW solar development proposal was in the works that required the removal of some forested acreage. Ms. Duffy completed a site visit to document the habitat characteristics of the existing covertypes on the property. Recommendations were provided on ways to avoid adverse impacts to suitable bat habitat.

Biomonitoring Studies and SEQRA EIS, Oneida-Herkimer Solid Waste Management Authority, Oneida County, Town of Ava, NY
B&L was the principal author of the D/FEIS' and alternatives analysis that resulted in the issuance of a U.S. Army Corps of Engineers wetland permit for the construction of the OHSWA Landfill in Oneida County, NY. A requirement of this permit was to conduct biomonitoring events in streams and wetlands that surround the newly constructed landfill site. Ms. Duffy completed a rigorous monitoring program for the site that included assessing populations of fish, amphibians, and other wildlife at specified sampling locations. She managed the monitoring efforts and was the primary author of the annual reports to support the field studies.

Madison County ARE Park, Madison County Landfill, Madison County, NY
B&L prepared a Draft and Final Generic Environmental Impact Statement for the proposed Agriculture and Renewable Energy Business Park as well as assisting Madison County in layout of the park in an effort to make the site as shovel-ready as possible. Field components and coordination associated with threatened/endangered species, cultural resources, and wetlands were completed by Ms. Duffy as the lead environmental scientist on the project.

Professional Advancement & Accreditations

US Army Corps Northeast/Northcentral Regional Supplement Training

Principles & Techniques of Electrofishing (by correspondence), USFWS National Conservation Training Center

Myotis sodalis Study Techniques Workshop

Phase I Bog Turtle Training, PennDOT

Hazardous Waste Operations Health & Safety (initial 40-hr course, current annual 8-hr refresher course)

Professional Affiliations

Chair – 2013-2017, NYS Wetlands Forum (NYSWF)

The Wildlife Society (TWS)

Society of Wetland Scientists

NYS Floodplain & Stormwater Managers Association

Three solar arrays (7.8MW) were proposed at the County's Northwest Quadrant Wastewater Treatment Plant as well. Ms. Duffy completed a site visit to document the presence/absence of sedge wren habitat, a species that kicked for consideration during the project's desktop review step. A technical memorandum was completed to provide suggestions on how to minimize habitat impacts.

Annual data was also collected for the on-site wetland creation sites, constructed as part of the mitigation for the landfill installation.

As a result, future tenants of the business park will not need to spend as much of their time and money to secure environmental approvals for their proposed developments within the park.

aesposito@bartonandloguidice.com

Years of Experience
32

Education
B.S., Wildlife Biology - SUNY ESF, 1981
A.A.S., Natural Resources Conservation – SUNY Morrisville, 1979

Professional Affiliations
Professional Wetland Scientists
Society of Wetland Scientists

Specialized Training
Rosgen Level I - Applied Fluvial Geomorphology
Rosgen Level II - River Morphology and Applications
Rosgen Level III – River Assessment and Monitoring
Rosgen Level IV - River Restoration and Natural Channel Design
Stream Restoration, North Carolina Stream Restoration Institute
Wetland Delineation, Wetland Training Institute
Wetland Functions and Values, Wetland Training Institute
Wetland Construction, Wetland Training Institute

ANTHONY N. ESPOSITO, PWS®

Lead Environmental Scientist

Summary

Mr. Esposito has experience in the fields of natural and impaired system characterization, assessment, and restoration. His technical expertise includes wetland delineation and restoration design, stream ecology, aquatic and terrestrial habitat improvements, and the data collection, design, permitting and construction management/ oversight services related to natural channel design (NCD). Mr. Esposito has designed multiple wetland restoration, stream restoration and streambank stabilization projects for a variety of industrial and municipal clients throughout the New York, the Midwest and the East Coast. He has substantial experience in the collection and analysis of both physical and biological stream data, and in the implementation of various protocols for the assessment of biological integrity, habitat quality, and channel stability.

Mr. Esposito's experience has enabled him to use innovative designs to address restoration and mitigation requirements for impacted streams, floodplains, and wetlands in a wide variety of environmental settings. His knowledge of the restoration of natural systems, including wetlands, stream channels, riparian corridors, essential fish habitat, and critical habitats has proved invaluable in returning degraded properties into valuable components of the ecosystem.

Relevant Project Experience

Wetland Delineation, Permitting, and Mitigation Design,
Land Port of Entry Site, Alexandria, NY
Delineated boundaries of wetlands to be impacted by the rehabilitation and upgrade of the border crossing checkpoint between Canada and the U.S. and the wetlands associated with a proposed mitigation wetland location. Permitted the project through USACE and NYSDEC. Designed the creation of a 1-acre mitigation wetland with special provisions for the threatened Blanding's turtle.

Wetland Mitigation for the Land Port of Entry Site on Wellesley Island, NY
Mr. Esposito finalized a wetland mitigation plan for the construction of a 1-acre emergent/scrub-shrub wetland to support the New York State threatened Blanding's turtle. The U.S. General Services Administration's expansion of the LPOE facility permanently impacted 0.48 acres of federally-regulated wetland resources and 0.71 acres of adjacent area of a New York State Freshwater Wetland. A mitigation plan was developed that included the creation of 1.17 acres of wetlands adjacent to a New York State Freshwater Wetland in Wellesley Island State Park. Working with NYSDEC wildlife staff; OPRHP staff; and a local academic herpetologist, the wetland was designed to complement the adjacent wetland by creating a mosaic of small islands, open water areas with varying water depths, and emergent and scrub/shrub wetland covertypes to enhance the habitat suitability for the Blanding's turtle. An elevated walkway with an educational kiosk was also constructed over a portion of the wetland to provide public access to the wetland from the Wellesley Island State Park Office, frequently visited by park guests. Construction of the mitigation wetland was completed in fall 2018.

mfuller@bartonandloguidice.com

Years of Experience
32

Education
B.S., Civil Engineering – Rochester Institute of Technology, 1987

A.A.S., Civil Engineering Technology – SUNY Delhi, 1984

Professional Registrations
Professional Engineer - NY, OK, MD, ME, PA, CT, NC, GA

Professional Affiliations
American Society of Civil Engineers

American Institute of Steel Construction

American Concrete Institute

Structural Engineering Institute

MATTHEW C. FULLER, P.E.

Vice President

Summary

Mr. Fuller's structural engineering skills have been used on projects encompassing the analysis and design of new and existing building structures; design of water, wastewater, and leachate storage tanks; rehabilitation of hydraulic structures; design of retaining and push walls; and structural design and analysis for superstructures and foundations. Mr. Fuller is proficient in state and federal building codes, structural assessments of buildings, and retrofit or rehabilitation of existing structural systems for buildings or facility structures. Mr. Fuller and his staff use RISA finite element modeling analysis and design software and other specialty software as applications require.

Relevant Project Experience

Wastewater Treatment Plant Facilities Plan, Ellenville, NY
B&L developed a Facilities Plan for improvements to the WWTP. B&L designed a 50 kW PV system for the site which was designed around 224 PV panels, each capable of providing approximately 225 watts of renewable energy. The new WWTP was designed to treat up to 1.4 mgd and meet several new SPDES permit limits including more stringent summer ammonia and summer UOD limits, new winter ammonia limit and new winter UOD limits. Mr. Fuller managed the structural and architectural staff and provided quality control review for the hydraulic structures and building modifications.

Energy Analysis, Campus DDC Upgrade, and HVAC Improvements, Columbia Greene Community College, Hudson, NY
B&L designed capital improvements throughout the campus which included an emergency management system, demand controlled ventilation, chiller replacement, supplemental cooling, and energy efficient pump and control system for the water treatment plant, including a solar powered mixer unit.

Solid Waste Management Facility, Development Authority of the North Country, (DANC) Jefferson County, Rodman, NY
B&L provided complete in-house engineering design, construction administration, and full-time field inspection for a five-acre solid waste management facility. This project involved design and construction of an 11,000-square-foot steel framed building that incorporated a second floor mezzanine and a 5-ton overhead crane and monorail interconnect.

Landfill Gas to Energy and Substation, DANC, Rodman, NY
B&L developed a comprehensive set of engineering design drawings for the 115 kV interconnect substation and 34.5 kV interconnect transmission line step up transformer substation. Also included were site plan layouts for the 34.5 kV interconnect overhead transmission line, foundations, and structural drawings for the step up transformer, a pre-fabricated switchgear building, substation tower structure, and 115 kV breaker support foundation; substation ground plans; power diagrams and protective device diagrams; switchgear control circuit elementary AC/DC schematics and control circuit interconnection wiring diagrams.

DAVID R. HANNY, CPESC, CPSWQ, LEED AP

Associate

dhanny@bartonandloguidice.com

Years of Experience

21

Education

B.S. Environmental Science - SUNY College of Environmental Science and Forestry, Syracuse, New York, 1998

Professional Registration

Certified Professional in Erosion and Sediment Control (CPESC)

Certified Professional in Stormwater Quality (CPSWQ)

Leadership in Energy & Environmental Design (LEED) Accredited Professional

Hazardous Waste Operations Health & Safety (Initial 40-hour Course, and Current Annual 8-Hour Refresher Course)

Summary

Mr. Hanny's principal responsibilities are in the fields of stormwater management, environmental compliance, remediation, and site investigations. He has performed both office- and field-based work relating to stormwater management design, environmental compliance monitoring, Phase I Site Assessments, environmental site investigations, remedial design, and asbestos abatement projects.

Mr. Hanny has provided assistance to 15 municipalities in the Central New York and Capital Region with the development of their required Stormwater Management Program in association with the Municipal Separate Storm Sewer Systems (MS4s) SPDES regulations.

Mr. Hanny has also been responsible for project management on numerous petroleum spill sites remediated under the NYSDEC Voluntary Cleanup Agreement and Brownfield Programs. He has been the designated project manager for five NYSDEC Environmental Restoration Projects.

Relevant Project Experience

MS4 Consulting, Statewide, NYS Thruway Authority and NYS Canal Corporation

Through a term agreement, B&L is currently performing tasks associated with MS4 Assistance for the NYS Thruway Authority and NYS Canal Corporation. B&L is responsible for administering their stormwater management programs throughout the state, including within the Onondaga Lake Watershed, and ensuring compliance with each minimum control measure as required by the state's existing MS4 SPDES General Permit. Mr. Hanny provided services such as development of training courses for NYSTA/NYSCC personnel, outfall inspections, and design of green infrastructure elements.

Regional Landfill Final Design & Inspection, Oneida-Herkimer Solid Waste Authority, Ava, NY

Mr. Hanny was the Stormwater Specialist responsible for stormwater permitting, management, and Stormwater Pollution Prevention Plans. B&L provided siting, permitting, design and construction for a 280-acre site, including double composite liner system, leachate collection and storage, stormwater management, on-site wetlands, landfill gas recovery system, maintenance/ administration building, cold storage building, sand storage building, pump station and fleet fueling system.

Gloria Drive SWPPP, Monroe County, NY

Mr. Hanny developed the site specific Stormwater Pollution Prevention Plan and Erosion and Sediment Control design. He provided all regulatory coordination with NYSDEC for SPDES Permit acquisition associated with construction activities. During construction, Mr. Hanny oversaw the site inspection and monitoring requirements. Following construction, Mr. Hanny prepared the Notice of Termination for the SPDES Permit.

rmurphy@bartonandloguidice.com

Years of Experience
7

Education
M.A. Urban and Regional Planning, University of Florida, 2011
B.S. Management, Rensselaer Polytechnic Institute, 2009

Professional Certification
AICP, American Institute of Certified Planners

ROBERT J. MURPHY, JR., AICP

Project Community Planner

Summary

Mr. Murphy an urban planner with experience in municipal grant writing, comprehensive planning, neighborhood and corridor master planning, focusing on economic and community development. He has managed several grant preparation and administration projects as well as Main Street Master Plans. Public participation sessions, outreach, and presentations are also part of Mr. Murphy's skill set. He supports grant applications with the development of narratives and data research. Mr. Murphy conducts composition, mapping, concept plan editing and supporting research on comprehensive plans, brownfield opportunity area documents, and feasibility studies.

Some of Mr. Murphy's skills include:

- Asset Management
- Grant Writing and Administration
- Geographic Information Systems
- Economic Development Strategy and Market Assessments
- Comprehensive and Neighborhood Planning
- Public Participation and Outreach

Relevant Project Experience

Grant Funding Strategy & Implementation, Sustainable Aquafarm Enterprises (SAFE), Inc., NY
SAFE, Inc. is a private sector firm which established greenhouse and fish hatchery operations at a former rose greenhouse facility located in Berlin, NY. SAFE utilizes a campus approach to generate thermal and electrical energy, farm caviar and fish products, and grow produce year-round. Mr. Murphy led B&L's efforts to obtain grants and affordable financing for the firm during its site development phase. Funding was solicited from such sources as Empire State Development, USDA-Rural Development, Rensselaer County IDA, and NYSERDA with over $3 million in grant funding obtained as of July 2017.

Central NY Regional Planning & Development Board Site Profile Reports
The CNYRPDB retained B&L to compile site development assessments of 25 business sites in the five-county Central New York area. Mr. Murphy developed the zoning and land use assessments for each site and entered it into a project-wide Microsoft Access database, in addition to editing and formatting the graphical site profile summary reports. He also assisted in map acquisition and generation as well as text editing of other profile sections.

Butterfield Redevelopment Review, Village of Cold Spring, NY
B&L provided Village Designated Engineering (VDE), SEQRA and rezoning review services to the Village of Cold Spring, NY for the redevelopment of the Butterfield Hospital site. The project included the rezoning of approximately 5.7 acres for the purpose of redevelopment of the Butterfield Hospital property. The zoning amendment enables the redevelopment of the abandoned hospital site with market rate senior housing and two new non-residential buildings.

jreed@bartonandloguidice.com

Years of Experience
19

Education
B.S., Agricultural and Biological Engineering – Cornell University, 1999

M.E., Agricultural and Biological Engineering – Cornell University, 2001

Professional Registration
Hazardous Waste Operations Health & Safety (HAZWOPER) Training

Registered Professional Engineer, New York, 2006

Professional Certifications
NYSDEC Class A/B Operator of Underground Storage Tanks

Professional Affiliations
Mohawk Valley Environmental Information Exchange (MVEIE) – Vice Chair (2017-current)
CNY Environmental Breakfast Club
CNY Air & Waste Management Association

JEFFREY J. REED, P.E.
Associate

Summary
Mr. Reed's primary responsibilities are in the areas of air permitting and compliance reporting, air emission inventories, greenhouse gas emission inventories and reporting, noise assessments, environmental compliance audits, fleet fueling system design, petroleum and chemical bulk storage system design, spill prevention and control, solid and hazardous waste management, environmental site assessments, environmental remediation, and environmental compliance engineering. Mr. Reed currently serves as the environmental engineering program manager for air permitting, emission inventories and compliance, noise assessments, fleet fueling system and petroleum bulk storage, chemical bulk storage, spill prevention, environmental remediation, and environmental compliance programs.

Noise Monitoring and Impact Assessments
Mr. Reed leads the environmental group's noise monitoring and assessment efforts for municipal, institutional, and private industrial clients. Project experience includes completion of noise monitoring and preparation of noise assessments for SEQRA and permit applications for various projects. In addition to assessments, B&L also has experience with assisting clients with real time noise monitoring and assisting clients with property line noise monitoring to meet regulatory requirements.

Mr. Reed lead the noise assessment team for the Madison County ARE Park featured in our project experience, and has lead assessments for numerous landfill permitting projects in similar rural settings.

Air Quality & Compliance Program
Mr. Reed serves as the air compliance program manager and his experience includes preparation of air emission inventories and emission calculations, completion of more than 30 NYSDEC Air Permit Applications, annual Title V permit compliance reporting for 10 facilities, air quality and landfill gas testing including: indoor air testing, LFG quality (including methane, particulates and sulfur), air emission (methane) surface scans, Tier 2 LFG testing, stack testing, engine emission pollutant monitoring (for NOx and CO), and TO-15 hazardous air pollutant sampling and testing. Mr. Reed also has experience with fuel gas quality testing for various permits, landfill gas to energy projects, and carbon trading programs.

Brownfields
As a member of B&L's NYSDEC Brownfield program management team, Mr. Reed managed the Town of Webb Thibado Property ERP project with a project budget of more than $400,000. Mr. Reed served as an integral team member on various other Brownfield projects. His experience includes work plan preparation; community air monitoring plans; engineering design; project budget; project schedule; staff coordination; contract documents and specifications; subsurface investigation; contract administration; construction administration; field oversight; environmental sampling; engineering inspection; and communication and coordination with the public, NYSDEC, NYSDOH, and municipal clients. Mr. Reed is currently managing a project for a private client in the Brownfield Cleanup Program.

CHARLES A. WHITE, P.E., LEED AP

Associate

cwhite@bartonandloguidice.com

Years of Experience
25

Education
B.S., Civil Engineering, University of Kentucky, 1994

Professional Registration
Registered Professional Engineer, New York, 2004

Professional Registration
Leadership in Energy and Environmental Design (LEED) Accredited Professional

Professional Affiliations
American Society of Civil Engineers (ASCE), Past President, Ithaca, NY Section, Past President, Syracuse, NY Section
NYS Floodplain & Stormwater Managers Association
NYS Association of Transportation Engineers (NYSATE)

Summary

Mr. White has significant experience in the planning, design and construction of transportation and civil engineering projects. He has played a key role on many design projects including, roadway design, site designs, stormwater and drainage projects, utility projects, and recreational trail projects, as well as many other related construction projects. His experience includes all project phases such as project development and planning, budgeting and grant application, design and permitting, bidding, oversight and construction administration, and project closeout. His municipal background also provides significant additional experience in infrastructure planning, development, and management.

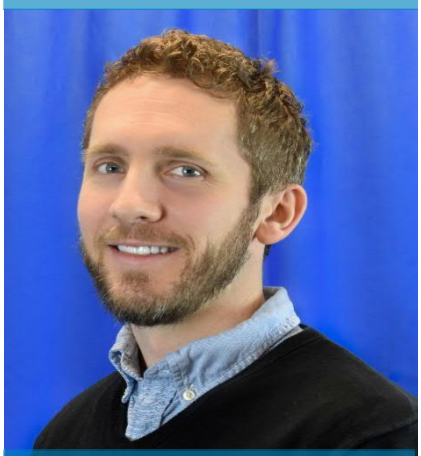
Mr. White has also served many of our municipal clients in CNY as Town/Village designated engineer, in these roles he has become keenly familiar with local government codes, site plan review requirements and SEQRA review processes.

Relevant Project Experience

Facility-Wide Modernization and U.S. Land Port of Entry, Alexandria Bay, NY
B&L provided engineering and architectural design related to the $195M modernization and expansion of the U.S. Land Port of Entry at Alexandria Bay, NY. This project involves a complete reconstruction of the facility. B&L was responsible for the engineering design of site improvements, transportation improvements (roadways, parking, etc.), potable water supply system, wastewater collection and treatment, wetland mitigation and stormwater management. Mr. White supervised and coordinated the design team efforts for all highway and site design, drainage and stormwater design, site utility systems, landscape design, and environmental permitting and design.

Site Support Services for FedEx Ground Distribution Facility, Town of DeWitt, JDC Property Group, LLC
B&L provided engineering services for the redevelopment of a portion of the former Magna-New Venture Gear site in the Town of DeWitt, New York, into an approximately 150,000 square foot Federal Express Ground distribution and warehouse facility. The project included associated parking, driveway improvements, stormwater management measures, landscaping, lighting and signage. Mr. White was Project Manager.

U.S. Land Port of Entry Assistance with Site/Civil Design, Massena, NY
The U.S. Land Port of Entry involved a $43M renovation of the existing border crossing at Massena, NY. As sub-consultant to SMH Architects and Ove Arup & Partners Engineers, B&L provided the site engineering design related to water supply, sanitary sewage collection and disposal, natural gas distribution, asbestos remediation, and stormwater management, and wetland mitigation. Key improvements include removal of existing buildings, construction of modernized inspection and maintenance facilities, provisions for site utilities, and significant realignment of the surrounding transportation system. Mr. White was B&L's lead civil engineer for this project.



kwilliams@bartonandloguidice.com

Years of Experience
13

Education
B.S. Environmental Engineering - SUNY College of Environmental Science and Forestry, Syracuse, New York, 2005

Professional Registration
Professional Engineer, New York, 2012

Hazardous Waste Operations Health & Safety (HAZWOPER)

Professional Affiliations
Air & Waste Management Association

KYLE C. WILLIAMS, P.E.

Senior Project Engineer

Summary

Mr. Williams' primary responsibilities are in the areas of air quality, noise monitoring and assessments, petroleum and chemical bulk storage system design and permitting, fleet fueling system design and construction oversight, spill prevention and control, solid and hazardous waste management, environmental investigations and remediation, and environmental compliance assistance and audits. Mr. Williams' air quality experience involves engineering services related to air quality permitting and compliance reporting, air emission inventories, greenhouse gas emission estimates and reporting, and hazardous air pollutant stack testing. Mr. Williams also provides landfill gas testing services including regulatory testing, landfill gas collection system balancing, and gas quality testing for landfill gas to energy systems.

Relevant Project Experience

Noise Monitoring and Impact Assessments
Mr. Williams serves and project engineer for the environmental group's noise monitoring and assessment efforts for municipal, institutional, and private industrial clients. Project experience includes completion of noise monitoring and preparation of noise assessments for SEQRA and permit applications for various projects. In addition to assessments, B&L also has experience with assisting clients with real time noise monitoring and assisting clients with property line noise monitoring to meet regulatory requirements. Mr. Williams has performed noise monitoring and assessment services for numerous landfill expansion and permitting projects that include regulatory compliance along with SEQRA elements. Most of these projects required ambient community noise measurements, propagation modeling of future noise, and sensitive receptor impact analysis in rural areas.

Air Permitting, Various Clients
Mr. Williams has been responsible for the preparation of air permit applications, air permit renewal applications and air permit modification applications for numerous solid waste and industrial clients in New York, Pennsylvania, Maryland and Florida. Current permitting projects range in size from minor permit modifications, Air Facility Registrations and Air State Facility Permit applications, to new Title V permits or modifications including significant major source determinations involving both Prevention of Significant Deterioration (PSD) and New Source Review (NSR) programs. Mr. Williams has been involved with all aspects of the permitting process, has developed a working relationship with regulators, and is well versed on existing and new state and federal air regulations. Mr. Williams has previously assisted in the preparation of two Title V Permit Renewal applications and one (1) Title V Permit Modification application for the Clinton County Landfill.

Quarterly Noise Monitoring, Private Landfill Client, NY
Mr. Williams oversees staff engineers with the performance of quarterly monitoring of property line noise levels resulting from landfill operations to ensure compliance with NYSDEC Solid Waste Regulatory noise limits. Mr. Williams provides QA/QC review of the quarterly reports and technical guidance on the project.